

Cobra® microTALK™

Owner's Manual

TWO-WAY RADIO MODEL
CXT420C

Printed in China
Part No. 480-536-P
Version A

Nothing Comes Close to a Cobra®

English

Introduction

Making Life Easier and Safer

Staying in touch with your family and friends is convenient and easy when using your microTALK® radio. Some of the many uses you will discover include:

Communicating with others while hiking, biking and working; keeping track of family and friends at a crowded public event; checking with travel companions in another car; talking with neighbors; arranging meeting spots with others while shopping at the mall.

Belt Clip



Secure your microTALK radio while on the go.

Carrying your microTALK radio with you is easy when using the belt clip.

The belt clip easily attaches to your belt, purse or backpack.

Customer Assistance

For Assistance in Canada or the U.S.A.

In this user's manual, you should find all the information you need to operate your microTALK® radio. If you require further assistance after reading this manual, Cobra Electronics offers the following customer assistance services:

Automated Help Desk

English. 24 hours a day, 7 days a week (773) 889-3087 (phone).

Customer Assistance Operators

9:00 a.m. to 5:00 p.m. Eastern Time, Monday to Friday (except holidays) (514) 683-1771, ext. 2-264 (phone).

Questions

Faxes can be received at (514) 683-5307 (fax).

Technical Assistance

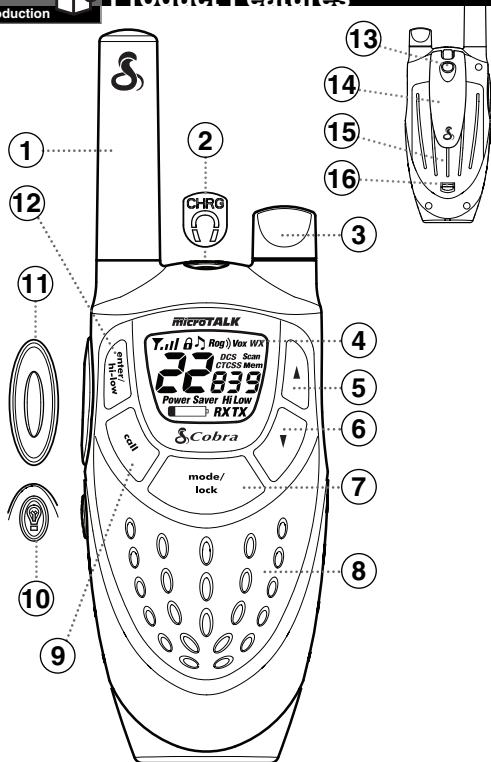
English and French. www.cobra.ca (on-line: Frequently Asked Questions).

English and Spanish. productinfo@cobra.com (e-mail).

For Assistance Outside Canada, the U.S.A. or in French Contact Your Local Dealer

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Chicago, Illinois 60707 USA
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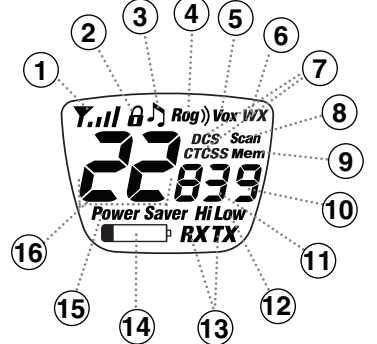
A1



- | | |
|--|-------------------------------|
| 1. Antenna | 9. Call Button |
| 2. External Speaker/
Microphone/Charge Jack | 10. Light/Max Range Button |
| 3. On/Off Volume Knob | 11. Talk Button |
| 4. Backlit LCD Display | 12. Enter/Hi-Low Power Button |
| 5. Channel Up Button | 13. Wrist Strap Connector |
| 6. Channel Down Button | 14. Belt Clip |
| 7. Mode/Lock Button | 15. Battery Compartment |
| 8. Speaker/Microphone | 16. Battery Door Latch |

- **22 Channels**
Seven shared with FRS/GMRS, seven FRS only, eight GMRS only
- **121 Privacy Codes**
(38 CTCSS codes/
83 DCS codes)
- **10 Channel NOAA**
All Hazards Radio
- **Hands-Free Operation (VOX)**
- **10 Channel Memory**
- **Signal Strength Meter**
- **Scan**
Channels, privacy codes, memory
- **Selectable Hi-Low Power**
In GMRS
- **Backlit LCD Display**
- **Button Lock**
- **Call Alert**
10 selectable tones
- **Speaker/Microphone/Charge Jack**
- **Roger Beep**
Selectable on/off
- **Battery/Power Saver**
- **Keystroke Tones**
Selectable on/off
- **Auto Squelch**
- **Maximum Range Extender**
- **Belt Clip**

Backlit LCD Display



- | | |
|--------------------------------|----------------------------|
| 1. Signal Strength Meter Icon | 9. Memory Icon |
| 2. Lock Icon | 10. Memory Location Number |
| 3. Keystroke Tones Icon | 11. Privacy Code Numbers |
| 4. Roger Beep Icon | 12. Hi-Low Power Icons |
| 5. VOX Icon | 13. Receive/Transmit Icons |
| 6. NOAA All Hazards Radio Icon | 14. Battery Low Indicator |
| 7. DCS/CTCSS Icons | 15. Power Saver Icon |
| 8. Scan Icon | 16. Channel Numbers |



Maximum range may vary and is based on unobstructed line-of-sight communication under ideal conditions.

**Industry Canada Notice:**

Operation is subject to the following two conditions:

- 1) this device may not cause interference, and
- 2) this device must accept any interference, including interference that may cause undesired operation of the device.

*IC- before the equipment certification number signifies that the Industry Canada technical specifications were met. It does not guarantee that the certified product will operate to the user's satisfaction.

Important FCC Licensing Information

This radio operates on General Mobile Radio Service (GMRS) frequencies which require a Federal Communications Commission (FCC) license in the U.S.A. See page 22 for licensing and other related information.

Caring for Your microTALK Radio

Your microTALK radio will give you years of trouble-free service if cared for properly. Handle the radio gently. Keep the radio away from dust. Never put the radio in water or in a damp place. Avoid exposure to extreme temperatures.

Remove Belt Clip



Pull Up Lock Latch



Insert Batteries



Rechargeable Batteries and Desktop Charger

To install or replace batteries:

1. Remove belt clip by releasing belt clip latch and sliding clip up.
2. Pull up on the battery door latch to the battery compartment cover.
3. Insert batteries according to polarity markings.
4. Replace battery compartment cover and belt clip.

**Estimated operation time on full charge:
12 hours.**

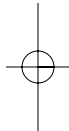
These rechargeable batteries must be recycled or disposed of properly in compliance with all applicable laws. They may not be thrown in the trash.

Certain states or municipalities require recycling and have established collection programs. Please contact your local waste removal authority for instructions, or return to Cobra® for recycling.

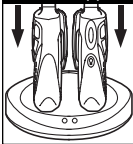
Wrap batteries carefully and mail postage prepaid to:
Cobra Electronics Corporation, 6500 West Cortland Street,
Chicago, IL 60707 USA, Attn: Battery Recycling.



Do not put batteries into fire or expose to high heat. They may explode.



Insert Radio(s)



For charging microTALK radio(s) in desktop charger:

1. Insert radio(s) into desktop charger as shown.
2. Insert round connector of 120-volt adapter into jack on back of charger.
3. Plug 120-volt adapter into electrical outlet.

If charging light is not **on**, check position of radio. Radio should be upright. The charge indicator light will stay **on** as long as the radio is in the charging well, even after the batteries are fully charged.

It normally takes about 15 hours to fully recharge batteries. Batteries will not be damaged if they stay in the charging well longer than that.

Note: To charge a single radio, you can bypass the desktop charger and simply insert the wall adapter's round connector directly into the speaker/microphone/charge jack located on the top of the radio.

Use only the supplied rechargeable batteries and charger for recharging your Cobra microTALK radio.

Cobra recommends your radio is turned **off** while being charged.

Non-rechargeable alkaline batteries can also be used in your radio.



Quick Start

1. Rotate the **On/Off Volume** knob to turn **on** your radio.
2. Press the **Channel Up** or **Channel Down** button to select a channel.



Both radios must be tuned to the same channel/privacy code to communicate.

3. Press and hold the **Talk** button while speaking into the microphone.
4. When finished talking, release the **Talk** button and listen for a response.

On/Off Power



Turning on Your microTALK Radio

Rotate the **On/Off Volume** knob clockwise to turn **on** your radio and adjust the volume. A series of tones will indicate the radio is **on**.

Your microTALK radio is now in **Standby** mode, ready to receive transmissions. The radio is always in **Standby** mode, except when the **Talk**, **Call** or **Mode/Lock** buttons are pressed.

Battery Low



Battery Low

When battery power is low, the **Battery Low** icon will blink. Your batteries should be recharged or replaced if using alkaline batteries.

Battery Save Mode



Auto Battery Save

Your microTALK radio has a unique circuit designed to extend battery life. If there are no transmissions for 10 seconds, the radio will automatically switch to **Battery Save** mode and the **Power Saver** icon will flash in the display. This will not affect the radio's ability to receive incoming transmissions.

Signal Strength



Signal Strength Meter

Your microTALK radio has a **Signal Strength Meter** that shows the strength of your incoming and outgoing transmissions. The ascending bars next to the signal strength indicate the strength of the signal. The greater the number of bars visible, the stronger the signal. The fewer number of bars visible, the weaker the signal.

Talk Button



Communicating with Another Person

1. Press and hold the **Talk** button.
2. With the microphone about 2 inches (5 cm) from your mouth, speak in a normal voice.

3. Release the **Talk** button when you are finished talking and listen for a response.

You cannot receive incoming calls while pressing the **Talk** button.

Two Inches (5 cm) from Mouth



Both radios must be tuned to the same channel/privacy code to communicate.

Channel Buttons



Channel Number



Channels

With the radio **on**, select any of the 22 channels by pressing the **Channel Up** or **Channel Down** button.



Both radios must be tuned to the same channel to communicate.

Channels 1 through 7 are shared by FRS and GMRS. Channels 8 through 14 are FRS only. Channels 15 through 22 are GMRS only.



See page 21 for FRS/GMRS frequency allocations and compatibility charts.

Listening



Listening for a Response

Release the **Talk** button to receive incoming transmissions. Your microTALK radio is always in **Standby** mode while the **Talk** or **Call** buttons are not pressed.

Volume Knob



Volume

Rotate the **On/Off Volume** knob.

Call Button

Call Button



Press and release the **Call** button.

The other person will hear a two second call tone. This tone is used only to establish voice communications.



See page 19 on how to select from 10 available call tone settings.

Enter/Hi-Low Button



Selectable High•Low Power Output

When in close proximity to another party or during favorable conditions, you can switch from **High** to **Low Power** to extend battery life.

Hi Power Icon



This feature applies to GMRS Channels 1 through 7 and 15 through 22 only. Channels 8 through 14 operate exclusively on low power.

Low Power Icon



To toggle between high and low power:

Press the **Enter/Hi•Low** button for two seconds.

When using Channels 1 through 7 and 15 through 22 on high power, the **Hi** icon will be visible on the display.

When using those channels on low power and on Channels 8 through 14, the **Low** icon will be visible on the display.

Light/Max Range



To Illuminate Display

Press and release the **Light/Max Range** button to illuminate the display for 10 seconds.

Auto Squelch/Maximum Range

Your microTALK radio is equipped with **Auto Squelch**, which automatically shuts **off** weak transmissions and unwanted noise due to terrain and conditions. This slightly reduces the **Maximum Range** at which signals can be heard.

You can turn **off** auto squelch to allow all signals to be received and extend the maximum range of your radio.

Light/Max Range

**To briefly turn off auto squelch:**

Press the **Light/Max Range** button for less than five seconds.

If you hear two beeps, you have turned the maximum range extender **on** (see below).

To turn maximum range extender on:

Press and hold the **Light/Max Range** button for at least five seconds until you hear two beeps which indicates the maximum range extender is **on**.

To turn maximum range extender off:

Press and release the **Light/Max Range** button or change channels.

Lock Feature

The **Lock** feature locks the **Channel**, **Mode/Lock** and **Enter/Hi•Low Power** buttons to prevent accidental operation.

Mode/Lock Button

**To turn the lock feature on or off:**

Press and hold the **Mode/Lock** button for two seconds.

A double beep sound is used to confirm your lock **on** or **off** request. When in **Lock** mode, the **Lock** icon will be displayed.

Lock Mode

**Dual Function Buttons**

Two of the buttons on the microTALK radio have **Dual Functions**:

Mode/Lock

- Press and release the button to scroll to the next mode function.
- Press and hold the button for two seconds or more to turn the lock function **on** or **off**.

Enter/Hi•Low Power

- Press and release the button to enter settings in **Function** mode.
- Press and release to toggle between high and low power transmission in **Standby** mode.

Speaker/Microphone/Charge Jack



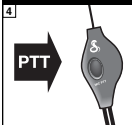
Placed in Ear



Clipped to Clothing



Push to Talk



Maximum Range



Reduced Range



Reduced Range

**Speaker/Microphone/Charge Jack**

Your microTALK radio can be fitted with an external **Speaker/Microphone**, freeing your hands for other tasks. This same jack also serves as the connecting point for a wall charger/adaptor.

To attach a speaker/microphone:

1. Open the speaker/microphone/charge tab on top of your microTALK radio.
2. Insert the plug into the speaker/microphone/charge jack.

To connect a wall charger/adaptor:

1. Open the speaker/microphone/charge tab on top of your microTALK radio.
2. Insert the wall charger/adaptor plug into the speaker/microphone/charge jack.

Earbud Microphone

1. Plug earbud microphone into radio.
2. Place earbud in ear.
3. Clip microphone onto clothing 3 inches (7.6 cm) to 6 inches (15.2 cm) from your mouth.
4. Push to talk.

microTALK Range

Your range will vary depending on terrain and conditions.

In flat, open country your radio will operate at maximum range.

Buildings and foliage in the path of the signal can reduce the range of the radio.

Dense foliage and hilly terrain will further reduce the range of the radio.

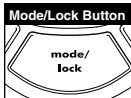
On FRS channels 8 through 14, your radio automatically switches to low power, which will limit the range the radio can communicate.



Remember, you can achieve maximum range by using maximum range extender. See page 6 for details.

Scrolling through Mode Functions

By scrolling through the **Mode Functions**, you will be able to select or turn **on/off** preferred features of your microTALK radio. When scrolling through the **Mode Functions**, your radio features will be displayed in the following order:





- Set CTCSS Privacy Codes
- Set DCS Privacy Codes
- Set NOAA All Hazards Radio Channel
- Set VOX On/Off
- Set VOX Sensitivity Level
- Set Memory Locations
- Set Channel Scan
- Set CTCSS Privacy Code Scan
- Set DCS Privacy Code Scan
- Set Memory Location Scan
- Set Call Tones
- Set Roger Beep On/Off
- Set Keystroke Tones On/Off

Scroll through the mode functions using the **Mode/Lock** button. Each press and release of the **Mode/Lock** button will advance to the next mode function. Press the **Talk** button at any point to return the radio to **Standby** mode.

Privacy Codes

Your microTALK radio incorporates two advanced coded squelch systems that can help to reduce interference from other users on any given channel. CTCSS (Continuous Tone Coded Squelch System) provides 38 privacy codes and DCS (Digitally Coded Squelch) provides 83 privacy codes. This provides a total of 121 **Privacy Codes**. Either system can be used on all channels, but both systems cannot be used on the same channel at the same time.

 To successfully communicate using a privacy code, both the sending and receiving radios must be tuned to the same channel and to the same privacy code system (CTCSS or DCS) and privacy code number. Each channel will remember the last privacy code system and number you select.

 The privacy code 00 is not a privacy code, but allows all signals to be heard on a channel that is set to 00 on both the CTCSS and DCS systems.

Set CTCSS Privacy Codes

Mode/Lock Button



CTCSS Privacy Code



Channel Buttons



To select a CTCSS privacy code:

1. After selecting a channel, press the **Mode/Lock** button until the small numbers next to the channel number flash on the display.



If DCS is turned **on** at the channel selected, the display will flash the CTCSS icon and "OFF." To switch from DCS to CTCSS, press the **Channel Up** or **Channel Down** button while the display is flashing "OFF." The display will then show the small numbers flashing and you will then be able to proceed to step 2.

2. Press using the **Channel Up** or **Channel Down** button to select a privacy code. You can hold the **Up** or **Down** button for fast advance.
3. When your desired CTCSS privacy code is displayed, choose one of the following:
 - a. Press the **Mode/Lock** button to enter the new setting and proceed to other functions.
 - b. Press the **Enter/Hi•Low** button to enter the new setting and return to **Standby** mode.
 - c. Do not press any buttons for 15 seconds to enter the new setting and return to **Standby** mode.

Set DCS Privacy Codes

Mode/Lock Button



DCS Privacy Code



Channel Buttons



To select a DCS privacy code:

- After selecting a channel, press the **Mode/Lock** button until the DCS icon appears and the small numbers flash on the display (01 through 83).



If CTCSS is turned **on** at the channel selected, the display will flash the DCS icon and “OFF.” To switch from CTCSS to DCS, press the **Channel Up** or **Channel Down** button while the display is flashing “OFF.” The display will then show the small numbers flashing and you will then be able to proceed to step 2.

- Press using the **Channel Up** or **Channel Down** button to select a DCS privacy code. You can hold the **Up** or **Down** button for fast advance.
- When your desired DCS privacy code is displayed, choose one of the following:
 - Press the **Mode/Lock** button to enter the new setting and proceed to other functions.
 - Press the **Enter/Hi-Low** button to enter the new setting and return to **Standby** mode.
 - Do not press any buttons for 15 seconds to enter the new setting and return to **Standby** mode.

NOAA* All Hazards Radio Channels

You can use your microTALK radio to listen to **NOAA All Hazards Radio** channels transmitting in your area.

Mode/Lock Button



To listen to **All Hazards Radio** channels:

- Press the **Mode/Lock** button until the **All Hazards Radio** icon, the currently selected **All Hazards Radio** channel, and signal strength are displayed.
- Use the **Channel Up** or **Channel Down** button to change **All Hazards Radio** channels.

Hazards Radio Icon



Channel Buttons



Enter/Hi-Low Button



- The **All Hazards Radio** icon will continue to be displayed when **All Hazards Radio** is on. Choose one of the following:
 - Press the **Mode/Lock** button to proceed to other functions.
 - Press the **Enter/Hi-Low** button to exit **All Hazards Radio** channel mode and return to **Standby** mode.
 - Press **Talk** button to exit and start on last used transmitting channel.

*National Oceanographic and Atmospheric Administration

Voice Activated Transmit (VOX)

In **VOX** mode, your microTALK radio can be used “hands-free,” automatically transmitting when you speak. You can set the **VOX** sensitivity level to fit the volume of your voice and avoid transmissions triggered by background noise.

Mode/Lock Button



VOX Icon



Channel Buttons



To turn **VOX** mode on or off:

- Press the **Mode/Lock** button until the **VOX** icon flashes on the display. The current **on** or **off** setting is displayed.
- Press the **Channel Up** or **Channel Down** button to turn **VOX** on or off.
- Choose one of the following:
 - Press the **Mode/Lock** button to enter the selected **on** or **off** setting and proceed to other functions.
 - Press the **Enter/Hi-Low** button to enter the selected **on** or **off** setting and return to **Standby** mode.

To set **VOX** sensitivity:

- Press the **Mode/Lock** button until the **VOX** icon flashes and the current sensitivity level is displayed.

Mode Functions

Mode/Lock Button



VOX Sensitivity Level



Channel Buttons



The current sensitivity level is displayed with letters "LE" and a Number 01 through 05, with Number 05 being the most sensitive level and Number 01 being the least sensitive level.

2. Press the **Channel Up** or **Channel Down** button to change the setting.
3. Choose one of the following:
 - a. Press the **Mode/Lock** button to enter the selected setting and proceed to other functions.
 - b. Press the **Enter/Hi•Low** button to enter the selected setting and return to **Standby** mode.

10 Memory Locations

Your microTALK radio has **10 Memory Locations** for storing your most frequently used channels and channel/privacy code combinations. These **Memory Locations** can be selected individually or can be scanned. (See page 18 for memory location scan.)

Mode/Lock Button



Memory Icon




Channel Buttons



Enter/Hi•Low Button



To program a memory location:

1. Press the **Mode/Lock** button until the **Memory** icon and the memory location flash on the display.
 2. Press the **Channel Up** or **Channel Down** button to select the memory location (0 through 9).
-  If a location has been programmed before, its associated channel/privacy code will be shown on the display.
3. Press the **Enter/Hi•Low** button to enter a new memory location or edit an already programmed memory location. The channel numbers will flash on the display.
 4. Press the **Channel Up** or **Channel Down** button to select a channel (1 through 22).
 5. Press the **Enter/Hi•Low** button. The CTCSS icon and privacy code numbers will flash on the display.

6. Choose one of the following:
 - a. Press the **Channel Up** or **Channel Down** button to select a CTCSS privacy code (01 through 38) for the channel.
 - b. Press the **Enter/Hi•Low** button to switch from CTCSS to DCS. The DCS icon and privacy code numbers will flash on the display. The **Channel Up** or **Channel Down** button can then be used to select a DCS privacy code (01 through 83) for the channel.



If "OFF" flashes in place of the privacy code numbers, a privacy code is already set in the opposite (CTCSS or DCS) system. Press the **Channel Up** or **Channel Down** button to cancel the opposite code and select a privacy code from the active system for the selected channel.

7. Choose one of the following:
 - a. Press the **Enter/Hi•Low** button to enter the channel/privacy code in the selected memory location. Radio then proceeds to next memory location, which will blink.
 - b. Press the **Mode/Lock** button to enter the channel/privacy code in the selected memory location and proceed to other functions on the channel/privacy code displayed before you entered mode functions.
 - c. Press the **Talk** button to enter the channel/privacy code in the selected memory location and exit mode functions. Upon release of the **Talk** button, the radio will enter **Standby** mode on the channel/privacy code just entered.

Mode/Lock Button



Memory Icon



To recall a stored memory channel location:

1. Press the **Mode/Lock** button until the **Memory** icon and the memory location number flash on the display.
2. Press the **Channel Up** or **Channel Down** button to select a memory location (0 through 9).



If a location has been programmed before, its associated channel/privacy code will be shown on the display.

Channel Buttons



- Press the **Talk** button to return to **Standby** mode on the selected memory location.



A memory location can be reprogrammed at any time it is displayed. Press the **Enter/Hi•Low** button to begin.

While recalling a stored memory location, if you do not press any buttons for 15 seconds, your radio will automatically return to **Standby** mode on the channel/privacy code displayed before you entered mode functions.

Mode/Lock Button



To de-program a memory location:

- Press the **Mode/Lock** button until the **Memory** icon and the memory location flash on the display.
- Press the **Channel Up** or **Channel Down** button to select the memory location (0 through 9).

Memory Icon



If a location has been programmed before, its associated channel/privacy code will be shown on the display.

Channel Buttons



- Press the **Enter/Hi•Low** button. The channel numbers will flash on the display.
- Press the **Channel Up** or **Channel Down** button to select Channel 0.
- Choose one of the following:
 - Press the **Enter/Hi•Low** button to enter the channel/privacy code in the selected memory location and return to the beginning of memory location options.
 - Press the **Mode/Lock** button to enter the channel/privacy code in the selected memory location and proceed to other functions on the channel/privacy code displayed before you entered mode functions.

Enter/Hi•Low Button



Channel 0



While de-programming a memory location, if you do not press any buttons for 15 seconds, your radio will automatically return to **Standby** mode on the channel/privacy code displayed before you entered mode functions.

Channel Scan

Your microTALK radio can automatically scan channels.

Mode/Lock Button



To scan channels:

- Press the **Mode/Lock** button until the **Scan** icon and the channel numbers flash on the display.
- Press the **Channel Up** or **Channel Down** button to begin scanning channels.

Scanning Channels



The radio ignores specific privacy codes while scanning channels.

Channel Buttons



The **Scan** icon will continue to be displayed when scan is **on**. Your radio will continue to scan all channels and stop if an incoming transmission is detected. Your radio will remain on that channel for 10 seconds.

While setting channel scan, if you do not press any buttons for 15 seconds, your radio will automatically return to **Standby** mode on the channel or channel/privacy code displayed before you entered mode functions.

During channel scan (while receiving an incoming transmission), you can choose from the following:

- Press and hold the **Talk** button to communicate on that channel. Your radio will remain on that channel and return to **Standby** mode.
- Press the **Channel Up** or **Channel Down** button to resume scanning channels.

If you press the **Talk** button while scanning, but more than 10 seconds after receiving a transmission, you will transmit on the channel on which you last received a transmission. This will return the radio to **Standby** mode.

If you do not press any button within 10 seconds after receiving a scanned transmission, your radio will automatically resume scanning channels.

During channel scan (while not receiving a transmission), you can choose from the following:

- Press and hold the **Talk** button to communicate on the channel or channel/privacy code that was displayed before you entered mode functions or the channel on which, during scanning, you last received a transmission. This will then return the radio to **Standby** mode.
- Press the **Mode/Lock** button to proceed to set privacy code scan on the channel that was either displayed before you entered mode functions or on which, during channel scanning, you last received a transmission (see below for further details).
- Press the **Enter/Hi•Low** button to return to **Standby** mode on the channel/privacy code that was displayed before you entered mode functions or the channel on which, during scanning, you last received a transmission.

Privacy Code Scan

Your microTALK radio can automatically scan the **Privacy Codes** (either CTCSS 01 through 38 or DCS 01 through 83) within one channel. Only one set of privacy codes (CTCSS or DCS) can be scanned at a time.



To scan privacy codes:

- While in **Standby** mode, press the **Channel Up** or **Channel Down** button to choose the channel on which you wish to scan privacy codes.
- Press the **Mode/Lock** button until either the CTCSS or the DCS icon appears on the display and the **Scan** icon and the privacy code numbers flash on the display.
- Press the **Channel Up** or **Channel Down** button to begin scanning privacy codes within the channel you selected.

Scan Privacy Codes



Channel Buttons



The **Scan** icon will continue to be displayed when privacy code scan is **on**. Your radio will continue to scan privacy codes and stop as an incoming transmission is detected. Your radio will remain on that channel/privacy code for 10 seconds.

While setting privacy code scan, if you do not press any buttons for 15 seconds, your radio will automatically return to **Standby** mode on the channel/privacy code that was displayed before you entered mode functions.

During privacy code scan (while receiving an incoming transmission), you can choose from the following:

- Press and hold the **Talk** button to communicate on that channel/privacy code. Your radio will remain on that channel/privacy code and return to **Standby** mode.
- Press the **Channel Up** or **Channel Down** button to resume scanning privacy codes.

If you press the **Talk** button while scanning, but more than 10 seconds after receiving a transmission, you will transmit on the channel/privacy code on which you last received a transmission. This will then return the radio to **Standby** mode.

If you do not press any button within 10 seconds, your radio will automatically resume scanning privacy codes.

During privacy code scan (while not receiving a transmission), you can choose from the following:

- Press and hold the **Talk** button to communicate on the channel/privacy code that was displayed before you entered mode functions or the channel/privacy code on which, during scanning, you last received a transmission. This will return the radio to **Standby** mode.
- Press the **Mode/Lock** button to proceed to set memory location scan (see page 18 for further details).
- Press the **Enter/Hi•Low** button to return to **Standby** mode on the channel/privacy code that was displayed before you entered mode functions or the channel/privacy code on which, during scanning, you last received a transmission.

Memory Location Scan

Your microTALK radio can automatically scan up to 10 programmed **Memory Locations**.



If there are one or fewer memory locations programmed in your radio, the scan memory locations option will not be available. To program at least two memory locations, see program memory locations on page 12.

Mode/Lock Button



To scan memory locations:

1. Press the **Mode/Lock** button until the **Scan** icon, **Memory** icon and the memory location number flash on the display.
2. Press the **Channel Up** or **Channel Down** button to begin scanning memory locations.

Scanning Locations



The **Scan** icon and the **Memory** icon will continue to be displayed when memory location scan is **on**. Your radio will continue to scan memory locations and stop if an incoming transmission is detected. Your radio will remain on that memory location for 10 seconds.

Channel Buttons



While setting memory location scan, if you do not press any buttons for 15 seconds, your radio will automatically return to **Standby** mode on the channel/privacy code displayed before you entered mode functions.

During memory location scan (while receiving an Incoming transmission), you can choose from the following:

- a. Press and hold the **Talk** button to communicate on that memory location. Your radio will remain on that memory location and after 10 seconds of no activity, radio will start memory location scan again.
- b. Press the **Channel Up** or **Channel Down** button to resume scanning memory locations.

If you press the **Talk** button while scanning, but more than 10 seconds after receiving a transmission, you will transmit on the memory location on which, during scanning, you last received a transmission. This will return the radio to **Standby** mode.

If you do not press any button within 10 seconds, your radio will automatically resume scanning memory locations.

During memory location scan (while not receiving a transmission), you can choose from the following:

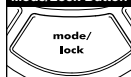
- a. Press and hold the **Talk** button to communicate on the channel/privacy code that was displayed before you entered mode functions or memory location on which, during scanning, you last received a transmission.
- b. Press the **Mode/Lock** button to proceed to other functions.
- c. Press the **Enter/Hi•Low** button to return to **Standby** mode on the channel/privacy code that was displayed before you entered mode functions or the memory location on which, during scanning, you last received a transmission.

To reduce the number of memory locations being scanned, you may de-program any unwanted locations. (See page 14 to de-program a memory location.)

10 Call Tone Settings

You can choose from 10 different call tone settings to transmit a unique call alert.

Mode/Lock Button



To change a call tone setting:

1. Press the **Mode** button until the letter "C" and the current call tone number (01 through 10) is displayed.
2. Press the **Channel Up** or **Channel Down** button to hear the other call tone settings.
3. Choose one of the following:
 - a. Press the **Mode/Lock** button to enter the new setting and proceed to other functions.
 - b. Press the **Enter/Hi•Low** button to enter the new setting and return to **Standby** mode.

Call Tone Setting



Channel Buttons



Mode Functions and General Specifications

Operation

Roger Beep Confirmation Tone

Roger Beep is an audible tone that your listener will hear when you release the **Talk** button. This alerts the other party that you are finished talking and it is OK for them to speak.

Mode/Lock Button



Roger Beep On



Channel Buttons



To turn roger beep on or off:

1. Press the **Mode** button until the **Roger Beep** icon flashes on the display. The current **on** or **off** setting is displayed.
2. Press the **Channel Up** or **Channel Down** button to select roger beep **on** or **off**.
3. Choose one of the following:
 - a. Press the **Mode/Lock** button to enter the new setting and proceed to other functions.
 - b. Press the **Enter/Hi•Low** button to enter the new setting and return to **Standby** mode.

Keystroke Tones

With **Keystroke Tones** turned **on**, your radio will sound beeps each time you press a button or change a setting.

Mode/Lock Button



Keystroke Tones On



Channel Buttons



To change keystroke tones:

1. Press the **Mode/Lock** button until the **Keystroke Tones** icon flashes on the display. The current **on** or **off** setting is displayed.
2. Press the **Channel Up** or **Channel Down** button to turn keystroke tones **on** or **off**.
3. Choose one of the following:
 - a. Press the **Mode/Lock** button to enter the new setting and return to **Standby** mode.
 - b. Press the **Enter/Hi•Low** button to enter the new setting and return to **Standby** mode.

Introduction

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General Specifications

FRS/GMRS Frequency Allocation and Compatibility

Important: Please note that Cobra GMRS models with 15 Channels may designate different channel numbers for the same frequency. For example, a Cobra 15 Channel GMRS model would need to be tuned to Channel 11 in order to communicate with a 22 Channel GMRS tuned to Channel 15. Please refer to the chart below for channel/ frequency number compatibility.

A = Channel No. for 22 Channel FRS/GMRS Models

B = Channel No. for 15 Channel GMRS Models

C = Type of Radio Service

D = Frequency in MHz

E = Power Output

A	B	C	D	E
1	1	FRS/GMRS	462.5625	High or Low
2	2	FRS/GMRS	462.5875	High or Low
3	3	FRS/GMRS	462.6125	High or Low
4	4	FRS/GMRS	462.6375	High or Low
5	5	FRS/GMRS	462.6625	High or Low
6	6	FRS/GMRS	462.6875	High or Low
7	7	FRS/GMRS	462.7125	High or Low
8		FRS	467.5625	Low
9		FRS	467.5875	Low
10		FRS	467.6125	Low
11		FRS	467.6375	Low
12		FRS	467.6625	Low
13		FRS	467.6875	Low
14		FRS	467.7125	Low
15	11	GMRS	462.5500	High or Low
16	8	GMRS	462.5750	High or Low
17	12	GMRS	462.6000	High or Low
18	9	GMRS	462.6250	High or Low
19	13	GMRS	462.6500	High or Low
20	10	GMRS	462.6750	High or Low
21	14	GMRS	462.7000	High or Low
22	15	GMRS	462.7250	High or Low

LICENSING

For Products Used in Canada

Industry Canada Notice

Operation is subject to the following two conditions: 1) this device may not cause interference, and 2) this device must accept any interference, including interference that may cause undesired operation of the device.

«IC» before the equipment certification number signifies that the Industry Canada technical specifications were met. It does not guarantee that the certified product will operate to the user's satisfaction.

For Products Used in the U.S.A.

FCC Licensing Required

This two-way radio operates on GMRS (General Mobile Radio Service) frequencies which require an FCC (Federal Communications Commission) license. A user must be licensed prior to operating on channels 1 through 7 or 15 through 22, which comprise the GMRS channels of this radio. Serious penalties could result for unlicensed use of GMRS channels; operation of this radio is subject to additional rules specified in 47 C.F.R. Part 95.

Licensed users will be issued a call sign by the FCC, which should be used for station identification when operating this radio. GMRS users should also cooperate by engaging in permissible transmissions only, avoiding channel interference with other GMRS users, and being prudent with the length of their transmission time.

For licensing information and application forms, please call the FCC Hotline at 800-418-FORM. Request form #159 and form #605. Questions regarding the license application should be directed to the FCC at 888-CALL-FCC. Additional information is available on the FCC's website at www.fcc.gov.

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC Warnings: Replacement or substitution of transistors, regular diodes or other parts of a unique nature, with parts other than those recommended by Cobra may cause a violation of the technical regulations of part 95 of the FCC rules, or violation of type acceptance requirements of part 2 of the rules.



Product Service

For any questions about operating or installing this new Cobra product, or if parts are missing...**PLEASE CALL COBRA FIRST...**do not return this product to the store. See customer assistance on page A1.

For Products Purchased in Canada

If your product should require factory service, please call AVS Technologies Inc. at 514-683-1771 ext. 2-264 before sending your radio. For out of warranty service, ship this product prepaid to: AVS Technologies Inc. (A Division of SYNnex Canada Limited), 3300 Côte-Vertu, Ste 310 Ville St-Laurent, Québec, CANADA H4R 2B7, www.cobra.ca. We reserve the right to repair or replace the radio with an equivalent product. Please include the following information: Date of Purchase, Model Number, Dealer Purchased From, Dealer Address, Dealer Phone Number.

For Products Purchased in the U.S.A.

If your product should require factory service, please call Cobra first before sending your radio. This will ensure the fastest turn-around time on your repair. You may be asked to send your radio to the Cobra factory. It will be necessary to furnish the following to have the product serviced and returned.

- 1) For warranty repair include some form or proof-of purchase, such as a mechanical reproduction or carbon of a sales receipt.
If you send the original receipt, it cannot be returned.
- 2) Send the entire product.
- 3) Enclose a description of what is happening with the radio. Include a typed or clearly printed name and address of where the radio is to be returned.
- 4) Pack radio securely to prevent damage in transit. If possible, use the original packing material.
- 5) Ship prepaid and insured by way of a traceable carrier such as United Parcel Service (UPS) or Priority Mail to avoid loss in transit to Cobra Factory Service, Cobra Electronics Corporation, 6500 West Cortland Street, Chicago, Illinois 60707 U.S.A.
- 6) If the radio is in warranty, upon receipt of your radio, it will either be repaired or exchanged depending on the model.

Please allow approximately three to four weeks before contacting Cobra for status. If the radio is out of warranty, a letter will automatically be sent informing you of the repair charge or replacement charge. If you have any questions, please call 773-889-3087 for assistance.

For Products Purchased Outside Canada or the U.S.A.

Please contact your local dealer for product service information.



Safety and Trademark Acknowledgement

Safety Information for microTALK® Radios

Your wireless handheld portable transceiver contains a low power transmitter. When the talk button is pushed, it sends out radio frequency (RF) signals. The device is authorized to operate at a duty factor not to exceed 50%. In August 1996, the Federal Communications Commission (FCC) adopted RF exposure guidelines with safety levels for handheld wireless devices.

Important:

FCC RF Exposure Requirements: For body-worn operation, this radio has been tested and meets the FCC RF exposure guidelines when used with Cobra accessories supplied or designated for this product. Use of other accessories may not ensure compliance with FCC RF exposure guidelines. Use only the supplied antenna. Unauthorized antennas, modifications, or attachments could damage the transmitter and may violate FCC regulations.

Normal Position:

Hold the transmitter approximately five cm (two inches) from your face and speak in a normal voice, with the antenna pointed up and away.

Trademark Acknowledgement

Cobra®, microTALK®, Nothing Comes Close to a Cobra®, VibrAlert® and the snake design are registered trademarks of Cobra Electronics Corporation, USA. Cobra Electronics Corporation™ is a trademark of Cobra Electronics Corporation, USA.

The Cobra line of quality products includes

CB Radios • microTALK® Radios • Radar/Laser Detectors • Safety Alert® Traffic Warning Systems • HighGear® Accessories • CobraMarine® VHF Radios • Marine Chartplotters • Power Inverters • Accessories



Warranty

Limited One-Year Warranty on Radio(s) & Charger

For Products Purchased in Canada

Your new Cobra GMRS radios and charger are covered by a one-year replacement warranty. If any manufacturing defect becomes apparent in this product within one year from the original date of purchase, it will be replaced. Please return the GMRS radio or charger to your dealer with original or copy of dated proof of purchase. This warranty does not cover damages due to careless handling, negligence, accident, abuse or failure to follow operating instructions. Alteration of this product or defacing of the serial number cancels all obligations of this warranty. This warranty gives you specified legal rights. Additional warranty rights may be provided by law in some areas.

For Products Purchased in the U.S.A.

Cobra Electronics Corporation warrants that its Cobra GMRS radios and charger, and the component parts thereof, will be free of defects in workmanship and materials for a period of one year from the date of first consumer purchase. This warranty may be enforced by the first consumer purchaser, provided that the product is utilized within the U.S.A.

Cobra will, without charge, repair or replace, at its option, defective GMRS radios, chargers, products or component parts upon delivery to the Cobra Factory Service department, accompanied by proof of the date of first consumer purchase, such as a duplicated copy of a sales receipt.

You must pay any initial shipping charges required to ship the product for warranty service, but the return charges will be at Cobra's expense, if the product is repaired or replaced under warranty. This warranty gives you specific legal rights, and you may also have other rights which may vary from state to state.

Exclusions: This limited warranty does not apply: 1) To any product damaged by accident; 2) In the event of misuse or abuse of the product or as a result of unauthorized alterations or repairs; 3) If the serial number has been altered, defaced, or removed; 4) If the owner of the product resides outside the U.S.A.

All implied warranties, including warranties of merchantability and fitness for a particular purpose are limited in duration to the length of this warranty. Cobra shall not be liable for any incidental, consequential or other damages; including, without limitation, damages resulting from loss of use or cost of installation.

Some states do not allow limitations on how long an implied warranty lasts and/or do not allow the exclusion or limitation of incidental or consequential damages, so the above limitations may not apply to you.

For Products Purchased Outside Canada or the U.S.A.

Please contact your local dealer for warranty information.

90-Day Warranty on Cobra Rechargeable Batteries and Earbud Microphones.

For products purchased in the U.S.A. and Canada.